

Routes

(inventoried, coinciding, high order, dummy)



8-Digit Code (Review)

The 8-digit code specifies state-maintained primary and secondary routes, local routes, and political boundaries (municipal, county, and state).



8-Digit Code Exercise

What is the 8-digit code for NC 87 ?

What type of feature is described by the 8-digit code of 80000006 ?

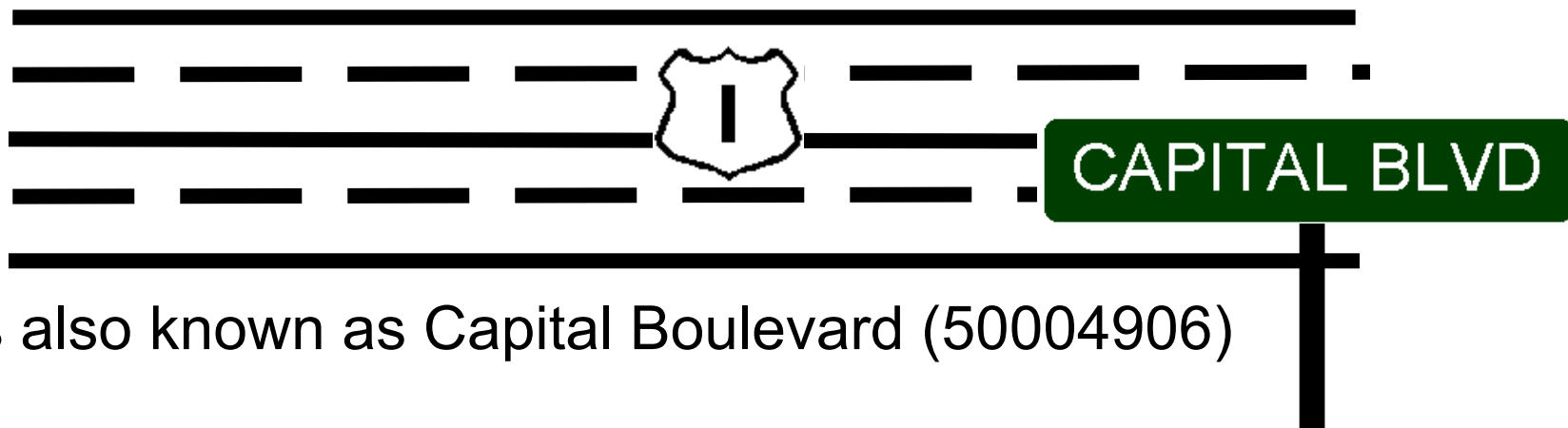
What type of route is defined by the 8-digit code of 40001010 ?

What is the 8-digit code for US 1 Alternate?

Coinciding Routes

Routes that follow the same section of pavement as other routes:

US 1 (20000001) in Raleigh ...



.....is also known as Capital Boulevard (50004906)

Therefore, Capital Boulevard is a coinciding route with US 1, AND US 1 is a coinciding route with Capital Boulevard.

Coinciding Routes (cont.)

- Many routes are designated by both a state route number and a local name.
- **Always** check for coinciding routes.
- The analyst can get the 8-digit code for the local route name from the “Feature Names and Secondary Routes” component of TEAAS.
- It is imperative in crash analyses to know if the study route has a local name attached to it.
- ***KNOW YOUR LOCATION!!!!***

Coinciding Routes Examples

Local Route Name - Primary Route Number
(Capital Boulevard - US 1)

Local Route Name - Secondary Route Number
(Third Street - SR 1335)

Possible to have more than two coinciding routes:

Local Route Name - Multiple Route Numbers
(Capital Boulevard - US 1 - US 401)

KNOW YOUR LOCATION!!!!

This map shows the Kewanee, Illinois area, including the Kewanee River and various streets and railroad lines. The map is divided into several sections by the river and the railroad lines. The streets shown include Main, Third St, East Main, Carady, Roper Rd, and Roosevelt Ave. The railroad lines shown include the Northwestern Railroad and the Rock Island Railroad. The map also shows several parcels, each labeled with a number. The parcels are numbered as follows: 1325, 1357, 1335, 1336, 1201, 1182, 1114, 1109, 1110, 1112, 1113, 1210, 1342, 1337, 1300, 1108, 1201, 1182, 1114, 1109, 1110, 1112, 1113, 1210, 1342, 1337, 1300, 1108, 1201, 1182, 1114, 1109, 1110, 1112, 1113, 1210. The map also shows the boundary between Kewanee and Rock Island.

Coinciding Routes Exercise

What is a coinciding route of Roosevelt Ave ?

What is a coinciding route of SR 1335 ?

What is a coinciding route of parts of NC 32 ?

High Order Routes

- In coinciding route situations, one of the routes is considered to be the highest order route (HOR)
- The lower the 8-digit code, the higher its order
- Used by the CRASH database to give each crash a HOR milepost (if the coinciding routes are mileposted)
- Crashes are not always reported using the HOR
- Crashes are always mileposted using the HOR (if the coinciding routes are mileposted)

High Order Route Examples

I 40 > I 440 > US 1 > NC 49 > SR 1001

Since:

10000040 < 10000440 < 20000001 <
30000049 < 40001001

High Order Route Exercise

What is the highest order route between coinciding routes Roosevelt Avenue and SR 1108 ?

What is the highest order route between coinciding routes NC 45 and NC 32 ?

What is the highest order route between coinciding routes US 29 Business and US 64 ?

High Order Route Segments

- Used to determine the Highest Order Route (HOR) on coinciding routes
- ***Review: In a coinciding route situation, the highest order route is the route that has the lowest 8-digit code along that segment***
- A particular road can have several different segments with different high order routes
- Access the highest order segments by selecting the following:



⇒ Highest Order Segments

High Order Route Segments (cont.)

To search for Highest Order Routes:

- Click the “**Search**” icon
- Enter the search criteria
- Leave any criteria blank if they are not part of the search
- Click the “**GO**” icon

The screenshot shows the TEAAS - Highest Order Segments search interface. The window title is "TEAAS - Highest Order Segments". The interface includes a menu bar with "Edit" and "Help". Below the menu bar is a toolbar with several icons, including a magnifying glass (labeled "Search" icon) and a green "GO" button (labeled "GO" icon). The main form is divided into two sections: "Inventoried Route" and "Highest Order Segment".

Inventoried Route Section:

- County:** WAKE (labeled "Specify Name of County")
- Inventoried Rte ID:** 50004908 (labeled "8-digit road code of the route (wildcard characters may be used to search for one or more inventoried routes - refer to Appendix D for a description on the use of wildcard characters)")
- Begin Milepost:** (labeled "Beginning Milepost of the Route")
- End Milepost:** (labeled "Beginning milepost of the route segment")

Highest Order Segment Section:

- Segment Milepost Begin:** (labeled "Beginning milepost of the high order segment")
- Segment Milepost End:** (labeled "Ending milepost of the route segment")
- HO Rte ID:** (labeled "8-digit road code of the high order route (wildcard characters may be used to search for one or more high order routes - refer to Appendix D a description on the use of wildcard characters)")
- HO Rte Milepost Begin:** (labeled "Beginning milepost of the high order route is not allowed as search criteria")
- HO Rte Milepost End:** (labeled "Beginning milepost of the high order route is not allowed as search criteria")
- Milepost Delta:** (labeled "Beginning milepost of the high order route is not allowed as search criteria")

Inventory Direction: Radio buttons for "Same" and "Reverse".

Last Update Section:

- User ID:** (labeled "Beginning milepost of the high order route is not allowed as search criteria")
- Date/Time:** (labeled "Beginning milepost of the high order route is not allowed as search criteria")

The bottom of the window shows a pagination bar with "0 of 0" and navigation arrows.

High Order Route Segments (cont.)

- Click the “**OK**” button on the records retrieved dialog box to view the records retrieved
- If no records are returned, verify that the search criteria are correct
- A new search may be executed by adjusting the search criteria and clicking the “**GO**” icon
- TEAAS will display a maximum of 500 records for any given search (although more than 500 records may actually meet the search criteria)

High Order Route Segments Example

Suppose you wanted to find all high order routes coinciding with Capital Boulevard (50004906) in Wake County...

Step A: Click on the “**Search**” icon

Step B: Enter the county name (Wake)

Step C: Enter the 8-digit code for the route (50004906)

Step D: Click the “**GO**” icon.

Step A

Step D

Step B

Step C

The screenshot shows the 'TEAS - Highest Order Segments' application window. It features a menu bar with 'Edit' and 'Help'. Below the menu is a toolbar with several icons, including a green circular 'GO' button with a white arrow. The main form is divided into two sections: 'Inventoried Route' and 'Highest Order Segment'. The 'Inventoried Route' section contains a 'County' dropdown menu with 'WAKE' selected, an 'Inventoried Route' text field with '50004906' entered, and empty fields for 'Begin Milepost' and 'End Milepost'. The 'Highest Order Segment' section contains several empty text fields for 'Segment Milepost Begin', 'Segment Milepost End', 'HO Rte ID', 'HO Rte Milepost Begin', 'HO Rte Milepost End', and 'Milepost Delta'. To the right of these fields is an 'Inventory Direction' section with two radio buttons: 'Same' and 'Reverse'. At the bottom of the window is a 'Last Update' section with 'User ID' and 'Date/Time' fields, and a status bar at the very bottom showing '0 of 0'.

High Order Route Segments Example

You should get a dialog box that reads

“The search returned: 3 record(s)”

Step E: Click on the **“OK”** button and view the high order records.

The screenshot shows the 'TEAAS - Highest Order Segments' window. It has a menu bar with 'Edit' and 'Help'. Below the menu is a toolbar with icons for file operations and a 'GO' button. The main area is divided into sections: 'Inventoried Route' with fields for 'County' (set to 'WAKE'), 'Inventoried Rte ID' (50004906), 'Begin Milepost', and 'End Milepost'; 'Highest Order' with fields for 'Segment Milepost', 'Segment Milepost', 'HO Rte ID', 'HO Rte Milepost Begin', 'HO Rte Milepost End', and 'Milepost Delta'; and 'Inventory Direction' with radio buttons for 'Same' and 'Reverse'. At the bottom is a 'Last Update' section with fields for 'User ID' and 'Date/Time'. A status bar at the very bottom shows '0 of 0' records. Overlaid on this window is a smaller 'TEAAS Information' dialog box with an information icon, the text 'The search returned: 3 record(s).', and an 'OK' button. An arrow points from the text 'Step E' to the 'OK' button in this dialog box.

Step E

If the dialog box reads **“The search returned: 0 record(s)”** it means that TEAAS could not find the route you entered in its list of high order routes (check your search criteria to verify that it was entered correctly).

High Order Route Segments Screen

TEAAS - Highest Order Segments

Edit Help

Inventoried Route

County: WAKE

Inventoried Rte ID: 50004906

Begin Milepost: 0.0

End Milepost: 16.010

Highest Order Segment

Segment Milepost Begin: 0.0

Segment Milepost End: 0.870

HO Rte ID: 50004906

HO Rte Milepost Begin: 0.0

HO Rte Milepost End: 0.870

Milepost Delta: 0.0

Inventory Direction

☒ Same ☐ Reverse

Last Update

User ID: TEAAS CONVERSION

Date/Time: 28 September 1999 12:00 AM

1 of 3

Beginning milepost for 50004906

Ending milepost for 50004906

Beginning milepost for this segment of 50004906

Ending milepost for this segment of 50004906

High order route ID for this segment of 50004906

Indicates whether the direction of the mileposting of the high order route matches the direction of the inventoried route for this segment

Beginning milepost for the high order route for this segment of 50004906

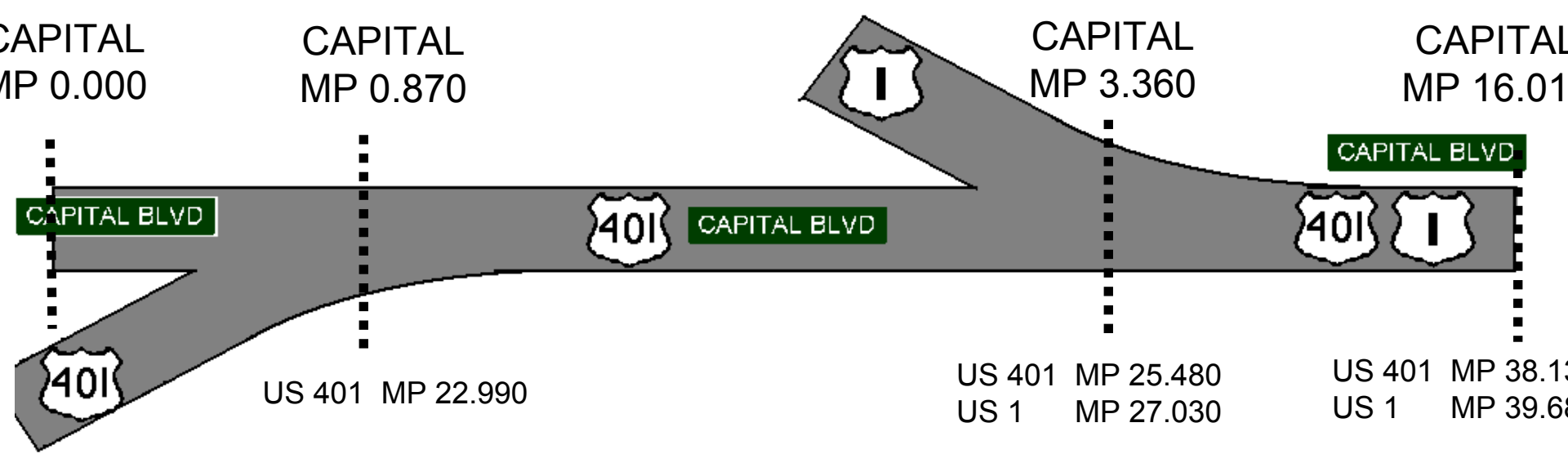
Ending milepost for the high order route for this segment of 50004906

Milepost delta (used to convert the milepost of crashes on a low order route to the milepost of the high order route)

High Order Route Segments Report (Visual Representation)

County	Inventoried Route ID	Begin Milepost	End Milepost	
WAKE	50004906	0.0	16.01	

Segment Begin MP	Segment End MP	Segment HO Route	HO Route Begin MP	HO Route End MP	Inventoried Direction	MP Delta
0.000	0.870	50004906	0.000	0.870	Same	0.000
0.870	3.360	20000401	22.990	25.480	Same	22.120
3.360	16.010	20000001	27.030	39.680	Same	23.670



Inventoried Routes

- Inventoried routes are routes that are currently recorded in TEAAS
- Access inventoried routes by selecting the following:



⇒ Inventoried Routes

Inventoried Routes (cont.)

To search for Inventoried Routes

- Click the “**Search**” icon
- Enter search criteria
- Leave any criteria blank if they are not part of the search
- Click the “**GO**” icon

The screenshot shows the TEAAS - Inventoried Routes application window. The interface includes a menu bar (Edit, Help), a toolbar with icons for file operations and search, and a main search area. The search area contains fields for County, Inventoried Rte ID, Begin Milepost, End Milepost, and Road Name. Below these fields are buttons for View and Add. The bottom section includes a Reports area with buttons for Features Report and HO Segments Report, and a Last Update area with fields for User ID and Date/Time. The status bar at the bottom shows 0 of 0 records.

Annotations:

- Search Icon
- “GO” icon
- Specify the county name
- Specify the 8-digit road code (wildcard characters may be used to search for one or more Inventoried road codes). Refer to *Appendix D* for a description on the use of wildcard characters.
- Specify the beginning milepost
- Specify the ending milepost
- Road Name is not allowed as search parameter

Inventoried Routes (cont.)

- Click the “**OK**” button on the records retrieved dialog box to view the identified records
- If no records are returned, verify that the search criteria are correct
- A new search may be executed by adjusting the search criteria and clicking the “**GO**” icon
- TEAAS will display a maximum of 500 records for any given search (although more than 500 records may actually meet the search criteria)

Inventoried Routes Example

Suppose you wanted to find out if SR 1010 in Wake County is an inventoried route...

Step A: Click on the “**Search**” icon

Step B: Enter the county name (Wake)

Step C: Enter the 8-digit code for the route (40001010)

Step D: Click the “**GO**” icon.

The screenshot shows the TEAAS - Inventoried Routes application window. The interface includes a menu bar with 'Edit' and 'Help'. Below the menu is a toolbar with several icons, including a green 'GO' button with a red arrow. The main form contains the following fields and sections:

- Inventoried Routes** section:
 - County: A dropdown menu with 'WAKE' selected.
 - Inventoried Route: A text input field containing '40001010'.
 - Begin Milepost: An empty text input field.
 - End Milepost: An empty text input field.
 - Road Name: An empty text input field.
- Features/HO Segments** section:
 - A dropdown menu.
 - 'View' and 'Add' buttons.
- Reports** section:
 - 'Features Report' and 'HO Segments Report' buttons.
- Last Update** section:
 - 'User ID' and 'Date/Time' text input fields.

At the bottom of the window is a status bar showing '0 of 0' with navigation arrows.

Arrows from the text steps point to the following elements in the interface:

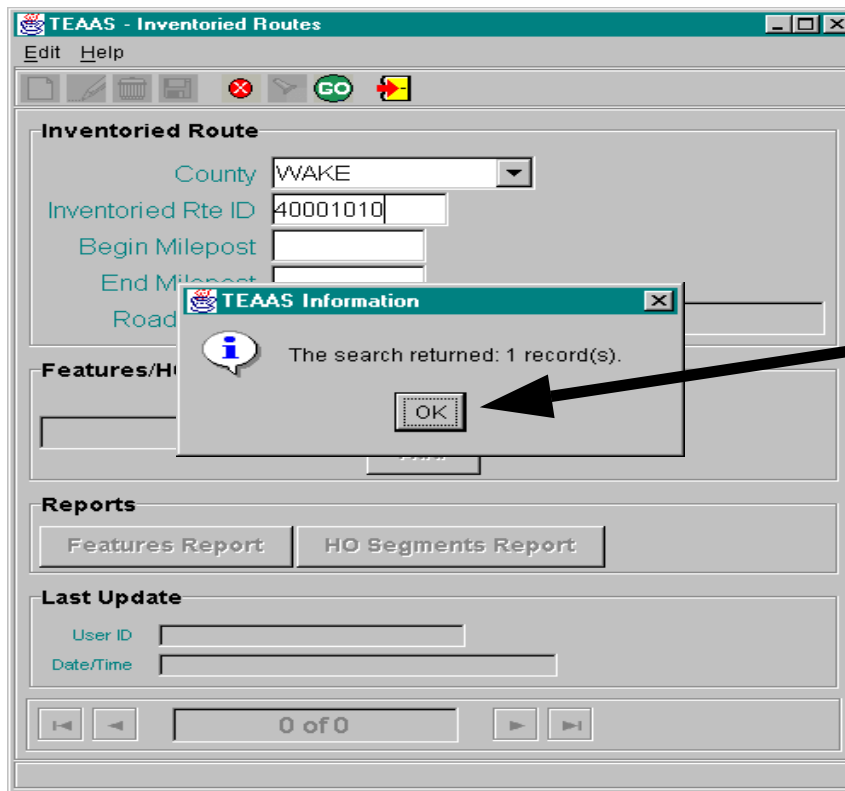
- Step A points to the green 'GO' button in the toolbar.
- Step B points to the 'County' dropdown menu.
- Step C points to the 'Inventoried Route' text input field.
- Step D points to the green 'GO' button in the toolbar.

Inventoried Routes Example (cont.)

You should get a dialog box that reads

“The search returned: 1 record(s)”

Step E: Click on the **“OK”** button



Step E

If the dialog box reads **“The search returned: 0 record(s)”** it means that TEAAS could not find the route you entered in its list of inventoried routes (check your search criteria to verify that it was entered correctly).

Inventoried Routes Example (cont.)

- Records show the county, 8-digit code (inventoried route ID), the beginning and ending mileposts, and the preferred text road name for all inventoried routes that met the specified criteria
- Records do not necessarily have mileposted features
- Possible additional data:
 - Features Report
 - HO Segments Report

Any available additional data will be in the Features Report and/or the High Order (HO) Segments Report

The screenshot shows a software window titled "TEAAS - Inventoried Routes". It contains several sections: "Inventoried Route" with fields for County (WAKE), Inventoried Rte ID (40001010), Begin Milepost (0.0), End Milepost (18.170), and Road Name (SR 1010); "Features/HO Segments" with a dropdown menu and "View" and "Add" buttons; "Reports" with buttons for "Features Report" and "HO Segments Report"; and "Last Update" with fields for User ID (TEAAS CONVERSION) and Date/Time (08 October 1999 08:03 AM). At the bottom, there are navigation buttons and a page indicator showing "1 of 1".

Dummy Route

- Used for studies that cross county lines
- Interstate 1 (100000001)
- Will not identify any crashes since the route does not exist
- All crashes and features (if a strip study) will need to be added